

AMENDMENTS TO THE CLAIMS

Claim 1 (Currently Amended) A non-storage type broadcasting system (100) for providing one or more services (S) composed of a content (C) in real-time for viewing by a user and providing a user interface (B)-unique to each (Sm) ~~service of the services (S)~~, the system comprising:

a transmission means (110) for sending out a control content (Cb), which implements the user interface (B), as a part or a whole of a the content (C); and

a reception means (130) for receiving the sent control content (Cb) and activating the received control content (Cb) to execute the user interface (B),

wherein the user interface (B) is transmitted/received as a the content.

Claim 2 (Currently Amended) The non-storage type broadcasting system (100) according to claim 1, wherein the control content (Cb) is a browser (B) for the content (C).

Claim 3 (Currently Amended) The non-storage type broadcasting system (100) according to claim 1,

wherein ~~the said~~ transmission means (130) includes:

a content sending means (112) for sending out a the content (C) containing the control content (Cbe); and

a service attribute information sending means (111) for sending out service attribute information (Isp) indicating details of the services, and

wherein ~~the said~~ reception means (130) includes a control content identification means (S504) for identifying the control content (Cb) from among received ~~contents~~ content (C) based on the received ~~contents~~ content (C, He) and the service attribute information (Isp).

Claim 4 (Currently Amended) The non-storage type broadcasting system (100) according to claim 3,

wherein the said content sending means (112) includes a content header addition means (112) for adding, to the content-(C), a content header-(He) which defines details of the content, and

wherein the said reception means (130) identifies the control content (Cb) from among the received content contents (C)-based on the content header headers (He) of the received content contents (C, He).

Claim 5 (Currently Amended) The non-storage type broadcasting system (700) according to claim 3,

wherein the said transmission means (710) further includes an electronic signature means (711) for applying an electronic signature to the control content (Cbe),

wherein the said service attribute information sending means (111) sends out a public key (KP) of the electronic signature (Sg) in the service attribute information-(IsP),

wherein the said reception means (730) further includes a signature authentication means (138; S1002) for authenticating the electronic signature with the public key (KP) contained in received service attribute information-(IsP), and

wherein the control content (Cb) is identified by authenticating the electronic signature.

Claim 6 (Currently Amended) The non-storage type broadcasting system (700) according to claim 5, wherein the authentication by the electronic signature (Sg) is performed using a key independent of each service.

Claim 7 (Currently Amended) The non-storage type broadcasting system (1500) according to claim 3,

wherein the said content sending means (112) further includes a content ID space management means for sending out information (CSD) which defines a partial space of an ID space of the content-(C), and

wherein the ~~said~~ reception means (130) further includes an identification means (S1801) for identifying the control content (Cb) based on whether a content ID falls within the partial space.

Claim 8 (Currently Amended) A control content transmission method for use in a non-storage type broadcasting system (100) for providing one or more services (S) composed of a content (C) in real-time for viewing by a user, the method providing a user interface (B) unique to each (Sm) of the ~~services~~ service (S), the method comprising:

a step of sending out a control content (Cb), which implements the user interface (B), as a part or a whole of the content (C); and

a step (S501-S505) of receiving the sent control content (Cb) and activating the received control content (Cb) to execute the user interface (B).

Claim 9 (Currently Amended) The control content transmission method according to claim 8, wherein the control content (Cb) is a browser (B) for the content (C).

Claim 10 (Currently Amended) The control content transmission method according to claim 8,

wherein the step of sending out further includes:

a content sending step of sending out a content (C) containing the control content (Cbe); and

a service attribute information sending step of sending out service attribute information (Isp) indicating details of the services, and

wherein the reception step (S501-S505) includes a control content identification step (S504) of identifying the control content (Cb) from among received ~~content~~ contents (C) based on the received ~~content~~ contents (C, He) and the service attribute information (Isp).

Claim 11 (Currently Amended) The control content transmission method according to claim 10,

wherein the content sending step includes a content header addition step of adding, to the content (~~C~~), a content header (~~He~~) which defines details of the content, and

wherein the reception step further includes a step of identifying the control content (~~Cb~~) from among the received ~~content~~ contents (~~C~~) based on content headers (~~He~~) of the received ~~contents~~ content (~~C~~, ~~He~~).

claim 12 (Currently Amended) The control content transmission method (~~700~~) according to claim 10,

wherein the step of sending out further includes an electronic signature step (~~711~~) of applying an electronic signature to the control content (~~Cbe~~),

wherein the service attribute information sending step further includes a service attribute information sending step of sending out a public key (~~KP~~) of the electronic signature (~~Se~~) in the service attribute information (~~Ispe~~), and

wherein the reception step further includes:

a signature authentication step (~~S1002~~) of authenticating the electronic signature with the public key (~~KP~~) contained in received service attribute information (~~Ispe~~); and

a step (~~S1003~~) of identifying the control content (~~Cb~~) by authenticating the electronic signature.

Claim 13 (Currently Amended) The control content transmission method according to claim 12, wherein the authentication by the electronic signature (~~Se~~) is performed using a key independent of each service.

Claim 14 (Currently Amended) The control content transmission method according to claim 10,

wherein the content sending step further includes a content ID space management step of sending out information (CSD) which defines a partial space of an ID space of the content (C), and

wherein the reception step further includes an identification step (S1801) of identifying the control content (Cb) based on whether a content ID falls within the partial space.

Claim 15 (Currently Amended) A reception device (130) for use in a non-storage type broadcasting system (100) for providing one or more services (S) composed of a content (C) in real-time for viewing by a user and providing a user interface (B) unique to each (Sm) of the service, the reception device receiving a control content (Cb) which implements the user interface (B), the control content being transmitted as a part or a whole of the content (C) and having added thereto service attribute information (Isp) indicating details of the services, the reception device comprising:

a reception means (131) for receiving ~~content~~ contents (C) transmitted from the transmitter (110);

an extraction means (132) for demodulating the received ~~contents~~ content (C) and extracting the ~~content~~ contents (C, He) and the service attribute information (Isp); and

a control content identification means (S504) for identifying the control content (Cb) from among the received ~~content~~ contents (C) based on the extracted ~~contents~~ content (C, He) and the service attribute information (Isp).

Claim 16 (Currently Amended) The reception device (130) according to claim 15,

wherein in the non-storage type broadcasting system (100), the content (C) is transmitted after being further added with a content header (He) which defines details of the content,

wherein the ~~said~~ extraction means (132) further extracts the content header (He) from the received ~~contents~~ content (C), and

wherein the ~~said~~ control content identification means (S504) identifies the control content (Cb) from among the received ~~contents~~ content (C) based on the extracted content header (He).

Claim 17 (Currently Amended) The reception device (730) according to claim 15, wherein in the non-storage type broadcasting system (700), the control content (Cbe) is signed with an electronic signature, and a public key (KP)-of the electronic signature (Sg)-is sent out in the service attribute information (IsP),

wherein the said reception device (730) further includes a signature authentication means (138; S4002) for authenticating the electronic signature with the public key (KP) contained in received service attribute information (IsP), and

wherein the said control content identification means (S504)-identifies the control content (Cb)-by authenticating the electronic signature.

Claim 18 (Currently Amended) The reception device (730) according to claim 17, wherein the authentication by the electronic signature (Sg)-is performed using a key independent of each service.

Claim 19 (Currently Amended) The reception device according to claim 15, wherein in the non-storage type broadcasting system (1500), the content (C) is added with information (CSD) which defines a partial space of an ID space of the content (C), and wherein the said identification means (S4804) further identifies the control content (Cb) based on whether a content ID falls within the partial space.